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## pH-dependent aggregation properties of mixtures of sugar-based gemini surfactants with phospholipids and single-tailed surfactants

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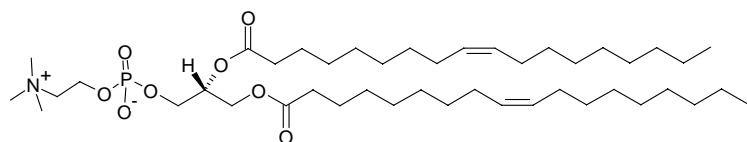
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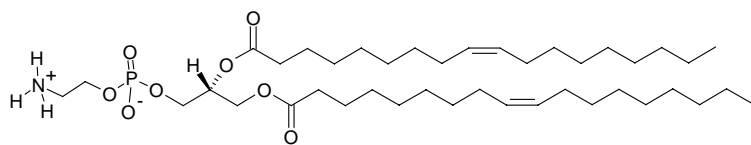
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## Supporting Information

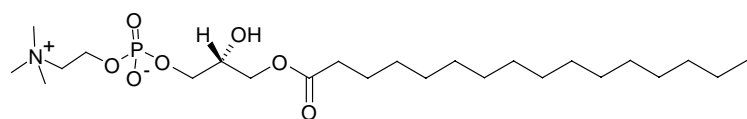
### DOPC



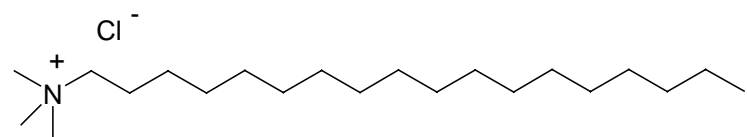
### DOPE



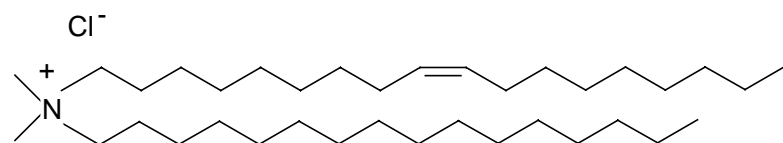
### Lyso-PC



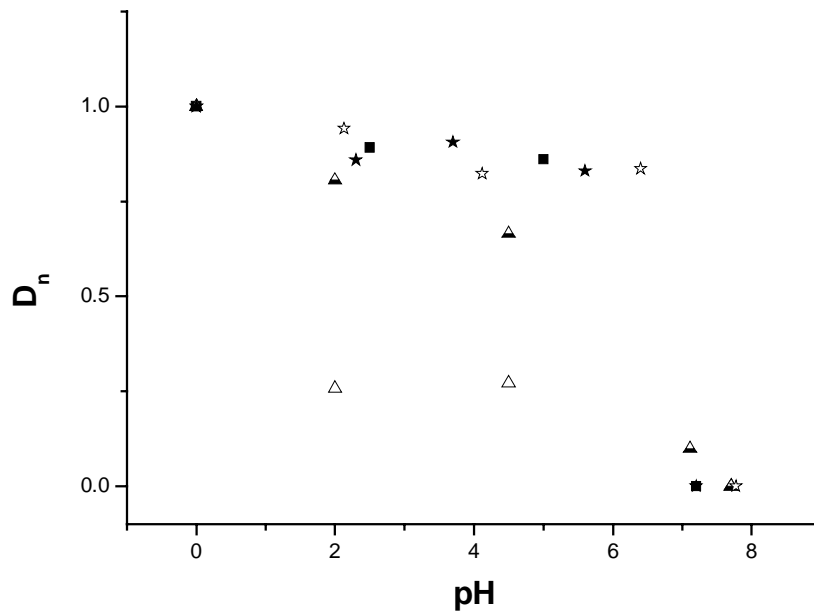
### OTAC



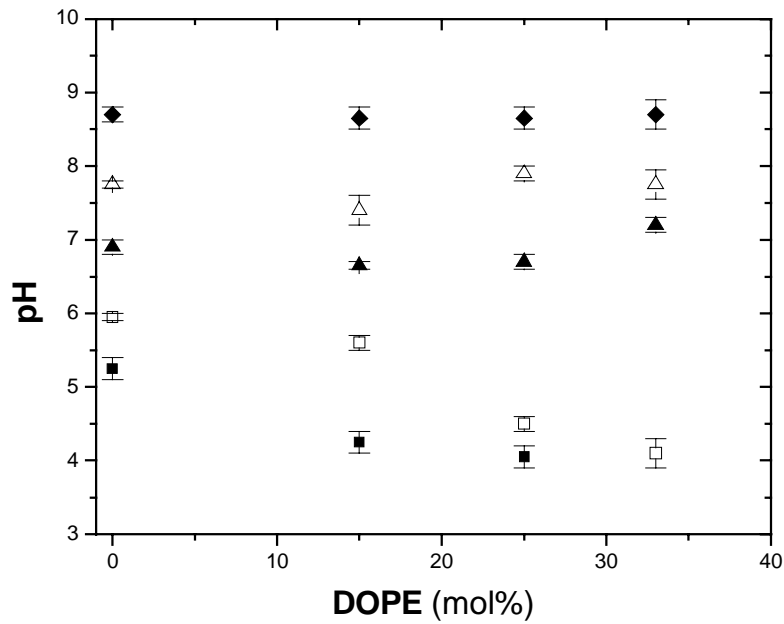
### HOAC



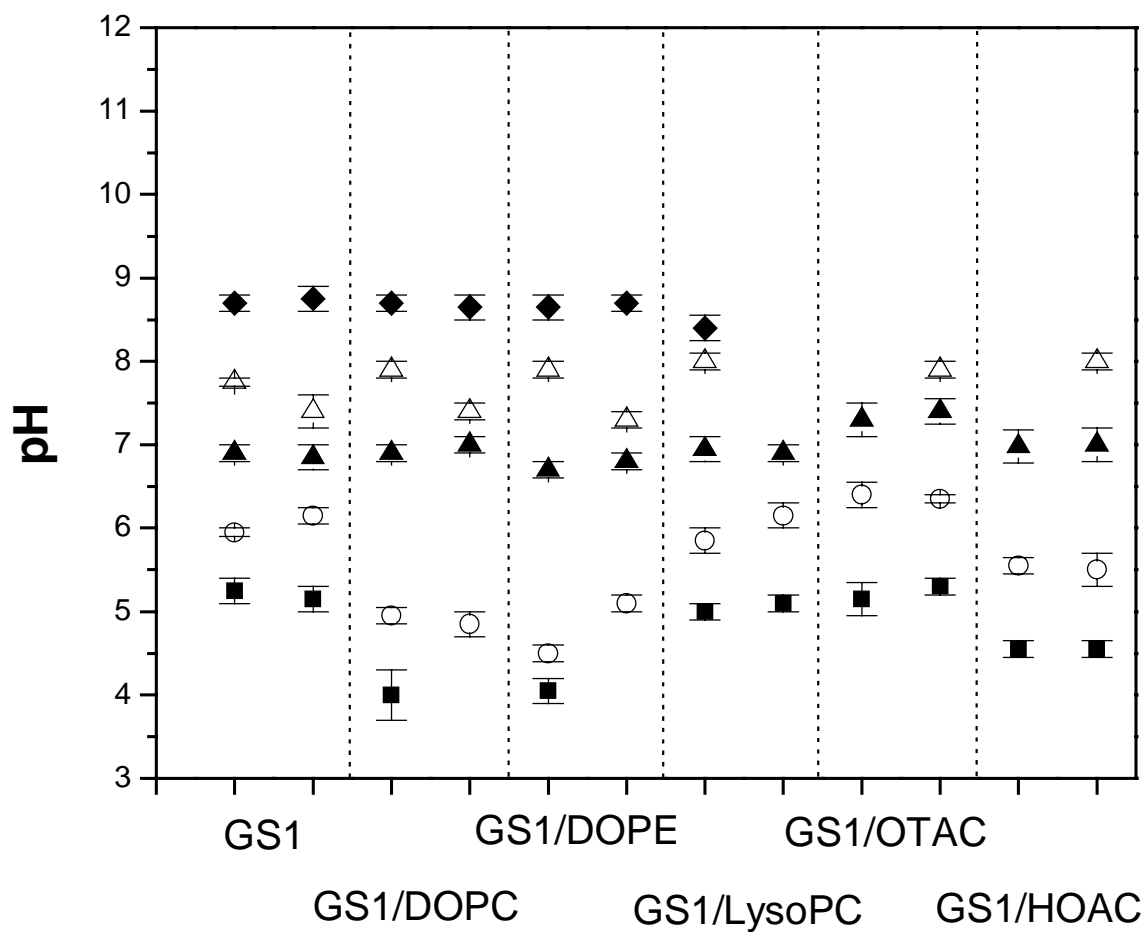
**Figure S1.** Molecular structures of DOPC, DOPE, Lyso-PC, OTAC and HOAC.



**Figure S2.** Reduced water self-diffusion coefficients ( $D_n/D_0$ ) for ! GS1,  $\cong$  GS1/DOPC=60/40 mol%, 8 GS1/DOPC=40/60 mol%,  $\psi$  GS1/Lyso-PC=75/25 mol%,  $\xi$  GS1/OTAC=75/25. The value obtained for the pure solvent is shown at pH 0.



**Figure S3** Phase transitions of mixtures of GS1/DOPE in water. See Figure 3 for the legend.



**Figure S4.** Comparison between the pH of transitions in water and in 150 mM aqueous NaCl for pure GS1 and its mixtures with DOPC, DOPE, LysoPC, OTAC and HOAC (additive 25 mol%). For each column, the values relative to water and to NaCl 150 mM are reported on the left and on the right, respectively. See Figure 3 for the legend.